

# FURTHER RANGE EXTENSIONS AND OTHER NOTABLE RECORDS OF FOREST BIRDS FROM TANZANIA

S.N. Stuart & F.P. Jensen

Stuart & Turner (1980) and Stuart, Howell, van der Willigen & Geertsema (1981) have documented some recent range extensions of forest birds in Tanzania. In this paper we present the latest discoveries, which, we believe, amount to the most extraordinary and unexpected ornithological finds in East Africa in recent years. Of particular interest are the new records from Mwanihana Forest on the eastern scarp of the Uzungwa Mountains. It seems likely that this forest has an avifauna at least as rich in species and endemics as the Usambaras and Ulugurus, which have hitherto been regarded as the centres of species richness in eastern Tanzania (Stuart 1981).

The species list for Mwanihana Forest is still incomplete. However, among the more interesting species so far found are a new species of sunbird *Nectarinia* (Jensen in press), Swynnerton's Forest Robin *Swynnertonia swynnertonii* (new to East Africa), the Dappled Mountain Robin *Modulatrix orostruthus*, the White-winged Apalis *Apalis chariessa* and the Usambara Weaver *Ploceus olivaceiceps nicolli*. Virtually all the ornithological work so far done has been restricted to the area below 1500 m, so clearly it is possible that much more remains to be discovered here, especially at higher elevations.



Fig. 1 Forest areas in Tanzania mentioned in the text

This paper also includes many records from the Uluguru Mountains. Several species have been added to the area list, these being mainly lowland forest birds. Of particular importance is the rediscovery of the endemic Uluguru Bush Shrike *Malaconotus alius*.

Many of the records refer to highland forest birds occurring at unusually low altitudes. This appears to be a widespread phenomenon in eastern Tanzania where wide altitudinal spans of forest occur from the mountain tops down to the surrounding plains. Many records of species from levels far lower than those at which they normally occur fall between the months April to September. This is suggestive of altitudinal movements of birds to foothill forests in the cold months (probably after breeding at higher altitudes).

Not included in this paper are records from the Pugu Hills. These are being documented by Howell, Baker & Stuart (in prep.).

The areas mentioned in the text are all marked on Figs. 1-3. Appendix 1 lists those birds so far recorded from Mwanihana Forest, an asterisk denoting what are considered to be forest species. Appendix 2 details the distributions of species endemic to the Tanganyika-Nyasa forests (in the sense of Moreau 1966). It is an updated version of Appendix 1 of Stuart & Turner (1980).

### SPECIES LIST

*Circaetus fasciolatus* Southern Banded Snake Eagle

One at Kimboza Forest, 300 m, 19 Jly 1981, first record from the Uluguru. One near Sanje, 300 m, 27 Jly 1981, first record from the Uzungwas.

*Accipiter minullus* Little Sparrowhawk

One at Kimboza Forest, 300 m, 19 Jly 1981, and one near Sanje, 300 m, 27 Jly 1981. These may be new localities.

*Accipiter ovampensis* Ovampo Sparrowhawk

One netted in Mwanihana Forest, 800 m, 28 Jly 1981, and another netted on 18 Sep 1981 at 1350 m in the same locality. These are new records for the area and also an unusual habitat for the species.

*Accipiter rufiventris* Rufous Sparrowhawk

One in Shume *Juniperus* forest, 5 May 1981, at 1900 m was new to the Usambaras, the nearest confirmed localities being Arusha (Britton 1980), and the Nguru Mountains (Britton 1981).

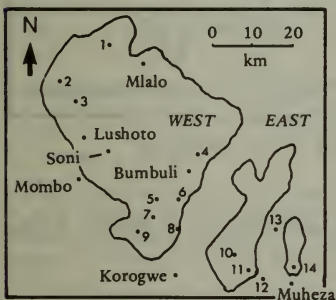


Fig. 2 The Usambaras

- |                                 |                        |
|---------------------------------|------------------------|
| 1 Shagayu Forest                | 8 Kwenhondwe Forest    |
| 2 Shume <i>Juniperus</i> forest | 9 Ambangulu            |
| 3 Shume-Magamba Forest          | 10 Amani               |
| 4 Mazumbai                      | 11 Amani-Sigi Forest   |
| 5 Balangai                      | 12 Kihuhwi-Sigi Forest |
| 6 Mahezangulu                   | 13 Kiwanda             |
| 7 Dindira                       | 14 Magrotto Estate     |

*Hieraaetus dubius* Ayres' Hawk Eagle

One at Sanje, 300 m, 27 Jly 1981, new to the Uzungwas.

*Stephanoaetus coronatus* Crowned Eagle

Recorded in July 1981 in the Uluguru Mountains from 300 to 2150 m. Although widespread, we can trace no previous Uluguru records.

*Aviceda cuculoides* Cuckoo Hawk

One at Sanje, 300 m, 27 Jly 1981, new to the Uzungwas.

*Aplopelia larvata* Lemon Dove

Recorded at Kwenhondwe Forest, 450 m, 14 May 1981, and at Kimboza Forest, 300 m, 19 Jly 1981 - very low altitudes for a characteristically mountain forest bird.

*Columba delegorguei* Bronze-naped Pigeon

Many records as low as 300 m in the East Usambara foothills, and recorded in Kimboza Forest, 18-20 Jly 1981 at the same altitude (in the Ulugurus).

*Poicephalus robustus* Brown-necked Parrot

Common in Kimboza Forest, 300 m, 18-20 Jly 1981, an unusual habitat.

*Chrysococcyx cupreus* Emerald Cuckoo

One heard in Shume-Magamba Forest, 2200 m, 11 Feb 1981. Not previously recorded above 2000 m (Britton 1980).

*Schoutedenapus myoptilus* Scarce Swift

Common over Shagayu Forest, 2000 m, 30 Apr to 2 May 1981, and at Shume *Juniperus* Forest, 1900 m, 3-5 May 1981. Previously recorded only from Mazumbai in the West Usambaras.

*Neafrapus boehmi* Böhm's Spinetail

Common in Kimboza Forest, 300 m, 18-20 Jly 1981, new for the Ulugurus.

*Telacanthura ussheri* Mottle-throated

## Spinetail

Recorded over Kinole Forest, 1200 m, in mid-Jly 1981, and a few at Kimboza Forest, 300 m, 19 Jly 1981. New for the Ulugurus.

*Ispidina picta* Pygmy Kingfisher

One netted at 600 m in Mwanihana Forest, 3 Aug 1981, possibly new to the Uzungwas. One netted in Amani-Sigi Forest, 600 m, 22 Aug 1981, and two in Kihuhwi-Sigi Forest in early September 1981, 300 m, suggesting that this species might visit the East Usambara foothills in small numbers in the cold months.

*Phoeniculus purpureus* Green Wood Hoopoe

Occurs within forest in Mwanihana Forest up to at least 1500 m.

*Bycanistes bucinator**Bycanistes bucinator* Trumpeter Hornbill

Abundant in Kimboza Forest, 300 m, 17-20 Jly 1981, and several at Sanje, 300 m, 27 Jly 1981.

*Buccanodon olivaceum* Green Barbets

A specimen taken from Mwanihana Forest, 17 Sep 1981 has been described as a new subspecies (Jensen & Stuart, in press). Birds from Mahenge can also be assigned to this new race, but we regard *B. o. ulugurensis* described by Ripley & Heinrich (1969) as invalid and prefer to treat Uluguru birds as nominate (see Jensen & Stuart, in press).



Fig. 3 The Ulugurus

*Pogoniulus leucomystax* Moustached Green Tinkerbird

Occurs as low as 450 m in Kwenhondwe Forest, 14 May 1981. Not previously recorded below 900 m (Britton 1980).

*Pogoniulus simplex* Green Tinkerbird

Sympatric with the previous species in Kwenhondwe Forest, not previously recorded from the West Usambaras. Common in Kimboza Forest, 300 m, 18-20 Jly 1981, first confirmed record from the Ulugurus (see Britton 1980).

*Indicator variegatus* Scaly-throated Honeyguide

One at 800 m in Mwanihana Forest, 29 Jly 1981, possibly new to the Uzungwas.

*Campephaga quiscalina* Purple-throated Cuckoo Shrike

One seen in Kimboza Forest, 300 m, 18 Jly 1981, the first recent record of the subspecies *muenzneri*. A female was seen subsequently in Mwanihana Forest at 700 m, presumably the same subspecies, but certainly a new locality. The subspecies *muenzneri* appears to be both a highland and lowland form, though most of the specimens and observations are from low altitudes.

*Coracina caesia* Grey Cuckoo Shrike

Although usually a mountain forest species, it is common down to 300 m in Kihuhwi-Sigi Forest throughout the year. It has also been recorded in Kwenhondwe Forest, 450 m, 13-14 May 1981, Kimboza Forest, 300 m, 19 Jly 1981 and in Mwanihana Forest, 600 m, 6 Jan 1981.

*Andropadus masukuensis* Shelley's Greenbul

Common down to 500 m in the East Usambara foothills. No previous records below 900 m (Britton 1980).

*Andropadus milanjensis* Stripe-cheeked Greenbul

Although not previously recorded below 900 m, according to Britton (1980), there is a skin in the Nairobi Museum collected by R.E. Moreau at Kiwanda, East Usambara foothills, 150 m, 20 Jly 1932. In January 1980 a few were recorded at 600 m in Amani-Sigi Forest and a few at 800 m in Mwanihana Forest, early August 1981.

*Phyllastrephus fischeri* Fischer's Greenbul

A couple netted at 600 m in Mwanihana Forest, 31 Jly 1981, new to the Uzungwas. Common in Kimboza Forest, 300 m, 18-20 Jly 1981, new to the Ulugurus.

*Phyllastrephus flavostriatus* Yellow-streaked Greenbul

Birds from Mwanihana Forest have been described as a new subspecies (Jensen & Stuart, in press).

*Phyllastrephus placidus* Olive Mountain Greenbul

One netted at 600 m in Amani-Sigi Forest, 19 Jan 1980, another low altitude record. It is common at Amani at 900 m though Britton (1980) gives the lowest altitude as 1000 m.

*Alethe fuelleborni* White-chested Alethe

In the Usambaras this species is common down to 500 m throughout the year. Common in Kimboza Forest, 18-20 Jly 1981, at only 300 m, and at Mwanihana Forest at 800 m in late July 1981. No previous records below 900 m (Britton 1980).

*Cossypha natalensis* Red-capped Robin Chat

A few seen in Mahezangulu Forest, 1000 m, 15 Apr 1981, first record from the West Usambaras, with subsequent records from Dindira (900 m) and Kwendhondwe Forest (450 m).

*Modulatrix orostruthus* Dappled Mountain Robin

One netted at 1250 m in Mwanihana Forest, only the third locality for this



very rare bird known previously from Namuli Mountain, northern Mozambique, and the East Usambaras. The Mwanihana specimen has been described as a new subspecies (Jensen & Stuart, in press).

*Modulatrix stictigula* Spot-throat

Abundant up to 2200 m in the West Usambaras (in all localities, not just at Mazumbai as stated by Stuart & Turner (1980)) and up to 2400 m in the Ulugurus. Britton (1980) gives the maximum altitude as 1800 m.

*Pogonocichla stellata* White-starred Forest Robin

Several low altitude records, especially interesting in the light of the findings of Britton, Britton & Coverdale (1981) on the south Kenya coast: one immature, Kihuhwi-Sigi Forest, 300 m, 11 Feb 1981, two in Kwenhondwe Forest, 450 m, 14 May 1981, common in Kimboza Forest, 300 m, 18-20 Jly 1981, several in Kihuhwi-Sigi Forest, 300 m, 1-10 Sep 1981. Probably most common at lower altitudes in the cold months April to September.

*Sheppardia sharpei* Sharpe's Akalat

Common in Amani-Sigi Forest in August 1981 down to 600 m. This indicates a cold season movement down the East Usambara scarp, it being absent at this altitude in the hot season. Not previously recorded below 900 m (Britton 1980).

*Swynnertonia swynnertoni* Swynnerton's Forest Robin

An extraordinary range extension of 1300 km from Mozambique and Zimbabwe. Two were collected in Mwanihana Forest, both at 100 m, the first on 3 Aug 1981 and the second on 17 Sep 1981. They constitute a new subspecies (Jensen & Stuart, in press) and the first records of this species from East Africa.

*Turdus gurneyi* Orange Ground Thrush

Another species showing a cold season movement down the East Usambara scarp (as low as 450 m in this case). Not previously recorded below 900 m in the East Usambaras, though recently found at only 300 m on Mrima Hill (Britton et al. 1981).

*Apalis chariessa* White-winged Apalis

Several seen in mid July 1981 in Kinole Forest from 1250 to 1400 m. These are the first Uluguru records since 1938 (see Moreau 1940). Subsequent to its discovery in Mwanihana Forest in January 1981 (Stuart et al. 1981) there have been further records at this locality from July to September 1981.

*Bathmocercus winifredae* Mrs Moreau's Warbler

Recorded up to 2400 m on the Lukwangule Plateau, 21-22 Jly 1981. Not recorded previously above 2200 m (Britton 1980).

*Camaroptera brachyura* Grey-backed Camaroptera

A specimen taken from Mwanihana Forest on 31 Jly 1981 has been assigned to the race *fugglescouchmani*.

*Hyliota australis* Southern Hyliota

A pair on the forest edge at Dindira, 1000 m, 9 May 1981. This is the first record from the West Usambaras, presumably of the seldom recorded race *usambara*.

*Phylloscopus ruficapilla* Yellow-throated Woodland Warbler

Recorded down to 450 m in Kwenhondwe Forest, 13-14 May 1981, and at 800 m in Mwanihana Forest, late July 1981. Not previously recorded below 900 m (Britton 1980). A specimen taken in Mwanihana Forest on 17 Sep 1981 was assigned to the race *minulla*.

*Phylloscopus umbrovirens* Brown Woodland Warbler

The rarely recorded race *fugglescouchmani* was found to be common in forest above 2250 m on the Lukwangule Plateau, 21-22 Jly 1981.

*Muscicapa adusta* Dusky Flycatcher

Seen at only 700 m in Mwanihana Forest, late July 1981. Not generally found below 900 m (Britton 1980).

*Muscicapa caeruleascens* Ashy Flycatcher

Particularly common in Kimboza Forest, 300 m, 18-20 Jly 1981, and one seen at 800 m in Mwanihana Forest, 17 Sep 1981.

*Myioparus plumbeus* Lead-coloured Flycatcher

A pair was seen in Kimboza Forest, 300 m, 18 Jly 1981, and another at 900 m in Mwanihana Forest, 30 Jly 1981.

*Bias musicus* Black and White Flycatcher

Recorded in Kimboza Forest, 300 m, 18-20 Jly 1981, first record from the Ulugurus. Subsequently it was recorded in Mwanihana Forest at 700 m, late July 1981, new to the Uzungwas, and at the foot of the scarp at Sanje, 300 m, in mid September 1981.

*Platysteira peltata* Black-throated Wattle-eye

Recorded in Mwanihana Forest, late July 1981, from 500 to 700 m.

*Erythrocerus holochlorus* Little Yellow Flycatcher

Recorded at 450 m in Kwenhondwe Forest, 13-14 May 1981, first record from the West Usambaras.

*Erythrocerus livingstonei* Livingstone's Flycatcher

Seen in Mwanihana Forest at 600 m, 1 Aug 1981, new to the Uzungwas, and first record north of the Kilombero River (see Hall & Moreau 1970). The previous species appears to be absent at this locality.

*Trochocercus albonotatus* White-tailed Crested Flycatcher

Recorded down to 450 m in Kwenhondwe Forest, 13-14 May 1981, where it is sympatric with the next species. No previous records below 900 m (Britton 1980).

*Trochocercus cyanomelas* Crested Flycatcher

Recorded at 450 m in Kwenhondwe Forest, 13-14 May 1981, first record from the West Usambaras.

*Malaconotus alius* Uluguru Bush Shrike

An immature was seen very clearly at 1600 m, 2 Jly 1981 on the west side of Lupanga Mountain. An adult was seen nearby at 1650 m on 5 Jly 1981. This bird gave an unmistakable call enabling us to locate the species on both the east and west sides of Lupanga, and on the west scarp of the Lukwangule Plateau at 2100 m. No other birds were seen. It is probably very thinly spread throughout the Uluguru forest above 1500 m. Virtually all previous records of the species had been seen from Bagilo, the most recent in 1962 (Britton 1980).

*Malaconotus multicolor nigrifrons* Black-fronted Bush Shrike

There are several low altitude records, as follows: 450 m in Kwenhondwe Forest, 13-14 May 1981; 600 m in Mwanihana Forest, 6 Jan 1981; 300 m in Kimboza Forest, 19 Jly 1981; and 300 m, Kihuhwi-Sigi Forest, 4-9 Sep 1981. Not previously recorded below 900 m (Britton 1980).

*Lamprotornis corruscus* Black-breasted Glossy Starling

A few seen at Marangu, southeast slopes of Kilimanjaro on 6 Aug 1981 were a considerable extension of the range inland in Tanzania (Britton 1980). However, in the National Museum, Nairobi there is a specimen from nearby Old Moshi collected in April 1916. The species is described by the collector as being common at this locality.

*Onychognathus walleri* Waller's Chestnut-winged Starling

Recorded as low as 300 m in Kihuhwi-Sigi Forest in early February 1980, and 14 Mar 1981. Not previously recorded below 900 m (Britton 1980).

*Poeoptera kenricki* Kenrick's Starling

Low altitude records from Kimboza Forest, 300 m, 18 Jly 1981 and the Sigi Valley below Amani, 450 m in mid August 1981. Not previously recorded below 900 m (Britton 1980). A few at 1500 m, 17 Sep 1981 in Mwanihana Forest constitute the first record from the Uzungwa Mountains, partially filling a gap between the Ulugurus and Mdando Forest (Njombe).

*Anthreptes neglectus* Uluguru Violet-backed Sunbird

Recorded in Kimboza Forest, 300 m, 19 Jly 1981, first recent Uluguru observation. In Mwanihana Forest it was seen from 600 to 1150 m in July to September 1981, a range extension to the Uzungwas, inland from the Ulugurus.

*Anthreptes rubritorques* Banded Green Sunbird

A few seen in Magrotto Estate, extreme east East Usambaras at only 750 m, 7 Apr 1981. Not previously recorded below 900 m (Britton 1980).

*Nectarinia loveridgei* Loveridge's Sunbird

In July 1981 recorded up to 2400 m on the Lukwangule Plateau, not previously recorded above 2000 m (Britton 1980).

*Nectarinia* sp. nov.

A male of this most distinctive and recently described species (Jensen, in press), was netted on 2 Aug 1981 at 1000 m in Mwanihana Forest. A female was taken in the same place on 16 Sep 1981. Subsequently two males and one female were seen there but not caught.

*Ploceus olivaceiceps nicolli* Usambara Weaver

A family party at Shume, 17 Feb 1981. One pair at Balangai, 1400 m, 12 Apr 1981, a new West Usambara locality. One seen in Kinole Forest, 1350 m, only the third record for the Ulugurus. Three seen in Mwanihana Forest, 1200-1250 m, 17 Sep 1981, a range extension to the Uzungwas.

*Pirenestes minor* Lesser Seed-cracker

One seen in Kimboza Forest, 300 m, 19 Jly 1981, first record from the Ulugurus in recent years.

*Serinus burtoni* Thick-billed Seed-eater

A pair netted at Mufindi, 1800 m, 30 Aug 1979 in forest were originally identified as the Streaky Seed-eater *S. striolatus*. Recent re-examination of photographs of these birds has shown that they were, in fact, the highly distinctive subspecies of the Thick-billed Seed-eater *S. b. melanochrous*. In the National Museum, Nairobi there are two specimens of this race from Dabega, 2000 m, collected on 24-26 Mar 1952. These records from Dabaga and Mufindi extend the range of *melanochrous* some 200 km northeast from Njombe, into the Uzungwas. Records from Mt Rungwe in August 1980 extend the range 70 km westwards. Clearly *melanochrous* is far more widely distributed than was hitherto realized.

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- S.N. Stuart, Department of Applied Biology, University of Cambridge, Pembroke Street, Cambridge CB2 3DX, UK and F.P. Jensen, Zoologisk Museum, Universitetsparken 15, DK2100, Copenhagen, Denmark.

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## APPENDIX 1

Birds recorded from Mwanihana Forest, eastern Uzungwa Mountains, up to September 1981. An asterisk (\*) denotes what are considered to be forest birds in this locality

- Gypohierax angolensis* Palm-nut Vulture  
 \**Circaetus fasciolatus* Southern Banded Snake Eagle  
 \**Accipiter minullus* ? ssp. Little Sparrowhawk  
*A. ovampensis* Ovampo Sparrowhawk  
 \**A. tachiro sparsimfasciatus* African Goshawk  
 \**Buteo tachardus oreophilus* Mountain Buzzard  
 \**Hieraaetus dubius* Ayres' Hawk Eagle  
 \**Stephanoaetus coronatus* Crowned Eagle  
*Aviceda cuculoides verreauxii* Cuckoo Hawk  
 \**Guttera pucherani* Kenya Crested Guineafowl  
 \**Aplopelia l. larvata* Lemon Dove  
 \**Columba a. arquatrix* Olive Pigeon  
 \**C. delegorguei sharpei* Bronze-naped Pigeon  
 \**Turtur tympanistria* Tambourine Dove  
 \**Tauraco l. livingstonei* Livingstone's Turaco



- \**Cercococcyx montanus patulus* Barred Long-tailed Cuckoo
- \**Chrysococcyx klaas* Klaas' Cuckoo
- \**Apaloderma vittatum* Barred-tailed Trogon
- \**Ispidina picta* ?ssp. Pygmy Kingfisher
- Upupa epops africana* Hoopoe
- \**Phoeniculus purpureus marwizi* Green Wood Hoopoe
- \**Bycanistes brevis* Silvery-cheeked Hornbill
- \**B. bucinator* Trumpeter Hornbill
- \**Tockus alboterminatus suahelicus* Crowned Hornbill
- \**Buccanodon leucotis* ?ssp. White-eared Barbet
- \**B. olivaceum* ssp. nov. Green Barbet
- \**Pogoniulus b. bilineatus* Yellow-rumped Tinkerbird
- \**Indicator variegatus* Scaly-throated Honeyguide
- \**Campethera abingoni* ?ssp. Golden-tailed Woodpecker
- \**Dendropicos fuscescens hartlaubi* Cardinal Woodpecker
- \**Mesopicos griseocephalus* ?ssp. Olive Woodpecker
- \**Smithornis capensis suahelicus* African Broadbill
- Psalidoprocne pristopectera* ?ssp. Black Roughwing
- \**Dicrurus ludwigii muenzneri* Square-tailed Drongo
- \**Oriolus chlorocephalus amani* Green-headed Oriole
- Corvus albicollis* White-necked Raven
- \**Campephaga flava* Black Cuckoo Shrike
- \**C. quiscalina muenzneri* Purple-throated Cuckoo Shrike
- \**Coracina caesia pura* Grey Cuckoo Shrike
- \**Andropadus masukuensis roehli* Shelley's Greenbul
- \**A. milanensis striifacies* Stripe-cheeked Greenbul
- \**A. virens zombensis* Little Greenbul
- \**Phyllastrephus fischeri* Fischer's Greenbul
- \**P. flavostriatus* ssp. nov. Yellow-streaked Greenbul
- \**P. p. placidus* Olive Mountain Greenbul
- Pycnonotus barbatus layardi* Common Bulbul
- \**Alethe fuelleborni usambarae* White-chested Alethe
- \**Cossypha natalensis intensa* Red-capped Robin Chat
- \**Modulatrix orostruthus* ssp. nov. Dappled Mountain Robin
- \**Pogonocichla stellata orientalis* White-starred Forest Robin
- \**Swynnertonia swynnertoni* ssp. nov. Swynnerton's Forest Robin
- \**Sheppardia s. sharpei* Sharpe's Akalat
- \**Turdus abyssinicus nyikae* Northern Olive Thrush
- \**T. gurneyi otomitra* Orange Ground Thrush
- \**Apalis chariessa macphersoni* White-winged Apalis
- \**A. melanocephala* ?ssp. Black-headed Apalis
- \**Bradypterus barratti usambarae* Evergreen Forest Warbler
- \**Camaroptera brachyura fugglescouchmani* Grey-backed Camaroptera
- \**Macrosphenus k. kretschmeri* Kretschmer's Longbill
- \**Phylloscopus ruficapilla minulla* Yellow-throated Woodland Warbler
- \**Muscicapa adusta fuelleborni* Dusky Flycatcher
- \**M. caerulescens cinereola* Ashy Flycatcher
- \**Myioparus plumbeus* ?ssp. Lead-coloured Flycatcher
- \**Batis m. mixta* Forest Batis
- B. soror* East Coast Batis
- \**Bias musicus changamwensis* Black and White Flycatcher
- \**Erythrocerus livingstonei thomsoni* Livingstone's Flycatcher
- \**Terpsiphone viridis plumbeiceps* Paradise Flycatcher
- \**Trochocercus albonotatus subcaeruleus* White-tailed Crested Flycatcher

- \*T. cyanomelas bivittatus* Crested Flycatcher  
*Motacilla clara torrentium* Mountain Wagtail  
*\*Dryoscopus cubla* ?ssp. Black-backed Puffback  
*Laniarius ferrugineus* ?ssp. Tropical Boubou  
*\*Malaconotus multicolor nigrifrons* Black-fronted Bush Shrike  
*\*Onychognathus w. walleri* Waller's Chestnut-winged Starling  
*\*Poeoptera k. kenricki* Kenrick's Starling  
*\*Anthreptes collaris zambesiana* Collared Sunbird  
*\*A. neglectus* Uluguru Violet-backed Sunbird  
*\*Nectarinia olivacea alfredi* Olive Sunbird  
*\*Nectarinia* sp. nov. (see Jensen, in press)  
*\*Zosterops senegalensis stierlingi* Yellow White-eye  
*\*Ploceus bicolor kersteni* Dark-backed Weaver  
*\*P. olivaceiceps nicolli* Usambara Weaver  
*\*Cryptospiza reichenovii australis* Red-faced Crimson-wing  
*Lonchura bicolor nigriceps* Rufous-backed Mannikin

## APPENDIX 2

Endemic and near-endemic birds of the Tanganyika-Nyasa montane forests  
 (as defined by Moreau 1966)

Species	Area												
	1	2	3	4	5	6	7	8	9	10	11	12	13
<i>Bubo poensis vosseleri</i>			x										
<i>Buccanodon olivaceum</i>			x	x		x	x	x	x			x	
<i>Oriolus chlorocephalus</i>			x	x		x	x					x	x
<i>Anropadus milanjensis</i>	x	x	x	x	x	x	x	x			x	x	x
<i>Alethe choloensis</i>												x	
<i>Alethe fueleborni</i>		x	x	x	x	x	x	x	x		x		x
<i>Dryocichloides anomalus</i>						x	x	x	x	x	x	x	
<i>Dryocichloides lowei</i>							x	x					
<i>Dryocichloides montanus</i>			x										
<i>Modulatrix orostruthus</i>			x				x					x	
<i>Modulatrix stictigula</i>			x	x	x	x	x	x		x	x		
<i>Sheppardia sharpei</i>			x	x		x	x				x		
<i>Swynnertonia swynnertonii</i>							x						x
<i>Apalis chariessa</i>						x	x					x	
<i>Apalis moreaui</i>			x							x			
<i>Bathmocercus winifredae</i>					x	x							
<i>Orthotomus metopias</i>			x	x	x	x	x	x		x			
<i>Laniarius fueleborni</i>			x	x	x	x	x	x			x		
<i>Malaconotus alius</i>						x							
<i>Anthreptes rubritorques</i>			x	x		x							
<i>Nectarinia loveridgei</i>						x							
<i>Nectarinia moreaui</i>				x	x								
<i>Nectarinia</i> sp. nov.							x						
<i>Ploceus olivaceiceps nicolli</i>			x			x	x						
Total number of species	1	2	14	10	8	15	15	9	2	4	6	7	4

## Key to areas

1 Taita Hills. 2 Pare Mts. 3 Usambara Mts. 4 Nguru Mts. 5 Ukaguru Mts. 7 Uzungwe Mts. 8 Southern Highlands, including Rungwe and Mdando Forest. 9 Mahenge.  
 10 Matengo Highlands, southern Tanzania and Njesi Plateau, northern Mozambique.  
 11 Northern Malaŵi. 12 Southern Malaŵi, and Namuli Mt and Chipero Mt, Mozambique. 13 Mountains south of the Zambezi.